ABSTRACT OF THE DISCLOSURE

This invention provides a micro controller in which a JTAG (Joint Test Action Group) port becomes available through a specific operation even after a security bit is set. More specifically, an embodiment of this invention provides a micro controller wherein: when an address signal AD2 and data DT2 are input from a JTAG port 11, the address signal AD2 and data DT2 are kept in shift registers 25 and 26 through a TAP (Test Access Port) 24; the address signal AD2 is forwarded to a flash ROM and data DT1 of the address specified by the address signal AD2 is read out and output a comparator 27; the data DT2 is also output the comparator 27; when if the data DT1 and DT2 agree, the output signal from the comparator 27 turns "H" and the output signal from the an AND gate 23 turns "L" independent of a security signal SEQ; and hereby the thereby a JTAG control circuit 12 turns switch on is switched on and the JTAG port 11 becomes connected to the TAP TAPs 13 and 14 through the JTAG control circuit 12.

ABSTRACT OF THE DISCLOSURE

This invention provides a micro controller in which a JTAG (Joint Test Action Group) port becomes available through a specific operation even after a security bit is set. More specifically, an embodiment of this invention provides a micro controller wherein: when an address signal AD2 and data DT2 are input from a JTAG port 11, the address signal AD2 and data DT2 are kept in shift registers 25 and 26 through a TAP (Test Access Port) 24; the address signal AD2 is forwarded to a flash ROM and data DT1 of the address specified by the address signal AD2 is read out and output a comparator 27; the data DT2 is also output the comparator 27; if the data DT1 and DT2 agree, the output signal from the comparator 27 turns "H" and the output signal from an AND gate 23 turns "L" independent of a security signal SEQ; and thereby a JTAG control circuit 12 is switched on and the JTAG port 11 becomes connected to TAPs 13 and 14 through the JTAG control circuit 12.